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Application/Control No.

10/772,792 Examiner

Callie E. Shosho

Applicant(s)/Patent under Reexamination

CAGLE, PHILLIP C.

Art Unit

1714

| √ | Rejected |
|---|----------|
| _ | Allowed  |

- (Through numeral)
Cancelled

Restricted

Non-Elected

I Interference

A Appeal
O Objected

|           |                 |              |  |                 |                 |                 |  | -          |                    |          |                    |          |                     |                    |                         |              |                 |          |          |     |  |            |          |          |           |          |          |          |          |                    |   |
|-----------|-----------------|--------------|--|-----------------|-----------------|-----------------|--|------------|--------------------|----------|--------------------|----------|---------------------|--------------------|-------------------------|--------------|-----------------|----------|----------|-----|--|------------|----------|----------|-----------|----------|----------|----------|----------|--------------------|---|
| Cla       | aim             | Date         |  |                 |                 |                 | Cla  | Claim Date |                    |          |                    |          |                     |                    | 1                       | Cla          | aim             | Date     |          |     |  |            |          |          |           |          |          |          |          |                    |   |
|           | _               | 9            |  |                 |                 |                 |  |            | $\Box$             |          |                    |          | П                   |                    |                         | Τ            |                 |          |          | 1   |  |            |          |          |           |          |          |          |          |                    |   |
| Final     | Original        | 11/17/06     |  |                 |                 |                 |  |            |                    |          | Final              | Original |                     | 1                  |                         | ľ            |                 |          | 1        |     | Final  | Original   |          |          |           |          |          |          |          | ı                  |   |
| ΙŒ        | ٦               | Ξ            |  |                 |                 |                 |  |            | 1                  |          | iĒ                 | Ä        |                     |                    |                         |              |                 |          | i        |     | 這  | ij         |          |          |           |          |          |          |          | l                  |   |
|           |                 | Ľ            | _  | L               |                 | <u> </u>        | _  | Ц          |                    | ╛        |                    | L        |                     |                    |                         |              | Ш               | _        |          | 1   |  |            | <u></u>  |          | Ш         |          |          | Ш        |          |                    |   |
| <u> </u>  |                 | _            | <u> </u>   | L.              | ldash           |                 |  | Ш          | _                  | 4        |                    | 51       | Ш                   | $\perp$            | _                       | ļ            | Ш               | _        |          |     |  | 101        |          | L        | Ш         |          |          |          |          |                    |   |
|           | 1               | <u> </u>     | ╙  | _               |                 |                 |  | Ш          |                    | 4        | <u></u>            | 52       | $\sqcup$            | _                  | _                       | ╄            | Ш               | _        |          |     |  | 102        | _        | L.       | Ш         |          |          |          |          | _                  |   |
| <u> </u>  | 1               | -            | <u> </u>   |                 | Ļ,              | _               | -  | Н          |                    | 4        | -                  | 53       | $\vdash$            | 4                  | -                       | +            | $\sqcup$        | $\dashv$ |          | 4   |  | 103        | <u> </u> | _        | Ш         | _        |          |          |          | _                  |   |
| <u> </u>  | 1               | -            | ├  | ⊢               | _               | _               | <del> </del>                                     | Н          |                    | 4        | -                  | 54<br>55 | $\vdash$            |                    |                         | +            | $\vdash$        | +        |          | 4 ! |  | 104<br>105 |          | H        | $\vdash$  | Ш        |          |          |          |                    |   |
| <u> </u>  | 1               | <del> </del> | ⊢  | $\vdash$        | H               | -               | ┝  | Н          | $\dashv$           | $\dashv$ |                    | 56       | $\vdash$            | +                  | +                       | ╀            | $\vdash$        | -        | -        | -   | $\vdash$   | 105        | H        | _        | -         |          |          | -        |          |                    |   |
| <b></b> - | +               | ⊢            |  | ╁               |                 |                 | H  | Н          | $\dashv$           | $\dashv$ |                    | 57       |                     | +                  | +                       | ╁            | $\vdash$        | $\dashv$ |          | -   | $\vdash$   | 107        | ┝        | $\vdash$ | $\vdash$  | _        |          | $\dashv$ |          | -                  |   |
| _         | 1               | ┢            | ┢一   | $\vdash$        |                 |                 | <del>                                     </del> | Н          | $\dashv$           | $\dashv$ | -                  | 58       | $\vdash$            | +                  | - -                     | ╁            | $\vdash$        | $\dashv$ | +-       | 1   | $\vdash$   | 108        |          | ┝        | H         | _        |          | $\vdash$ | $\vdash$ | -                  | _ |
| _         | 3               | -            | <del>                                     </del> |                 |                 |                 | ╁  | Н          | $\dashv$           | $\dashv$ |                    | 59       |                     | +                  |                         | ╁            | H               | $\dashv$ | -        | 1   |  | 109        |          | $\vdash$ | Н         | _        | -        | Н        | $\vdash$ | $\dashv$           |   |
|           | 10              | Г            | 1  | $\vdash$        |                 |                 |  | Н          | $\dashv$           | $\dashv$ |                    | 60       | $\vdash \vdash$     | +                  | +                       | $\dagger$    |                 | $\dashv$ | +        | ┧ ╎ | $\vdash \vdash$                                  | 110        |          | $\vdash$ | H         |          |          | $\vdash$ | $\vdash$ | $\dashv$           |   |
|           | 1               | -            |  | П               | Г               | _               | $\vdash$   | Н          | 十                  | ┪        |                    | 61       | H                   | 十                  | +                       | $\top$       | H               | $\dashv$ | _        | 1   |  | 111        | $\vdash$ | $\vdash$ | H         |          |          | Н        | $\vdash$ |                    |   |
|           | <b>(12)</b>     | <b>√</b>     | <u> </u>   | П               |                 |                 |  | Н          | $\dashv$           | ┨        |                    | 62       |                     | $\dashv$           | $\top$                  | $\dagger$    | $\vdash$        | $\dashv$ |          | 1   | М  | 112        | $\vdash$ |          | H         |          |          | Н        | -        |                    | _ |
|           | 13              | Ť            |  |                 |                 |                 |  |            |                    |          |                    | 63       | П                   | 十                  | T                       | †            |                 | $\dashv$ | $\top$   | 1   |  | 113        |          |          | М         |          |          | Н        | $\neg$   | $\dashv$           |   |
|           | 14              |              |  |                 |                 |                 |  |            |                    |          |                    | 64       |                     | $\dashv$           |                         | 1            | П               |          | $\top$   | 1   |  | 114        |          |          | П         |          |          | $\Box$   |          | $\dashv$           |   |
|           | 15              |              |  |                 |                 |                 |  |            |                    |          |                    | 65       |                     |                    |                         |              |                 |          |          | 1   |  | 115        |          |          | П         |          |          | $\Box$   |          | $\neg$             |   |
|           | 16              | $\prod$      |  |                 |                 |                 |  |            |                    |          |                    | 66       |                     |                    | $oxed{oxed}$            | $oxed{oxed}$ |                 |          |          | ]   |  | 116        |          |          |           |          |          |          |          |                    |   |
|           | 17              | L            |  |                 |                 |                 |  |            |                    |          |                    | 67       |                     |                    | $oldsymbol{\mathbb{T}}$ |              |                 |          |          | ]   |  | 117        |          |          |           |          |          |          |          |                    |   |
|           | 18              | V            |  |                 |                 |                 |  |            |                    |          |                    | 68       |                     |                    | $\perp$                 |              |                 |          |          |     |  | 118        |          |          |           |          |          |          |          |                    |   |
| <u></u>   | \$              |              |  |                 |                 | L.              |  |            |                    | _        |                    | 69       |                     |                    |                         |              | Ш               |          |          |     |  | 119        |          |          |           |          |          |          |          |                    |   |
|           | 80              |              | _  |                 |                 |                 |  |            |                    | _        |                    | 70       | Ш                   | Д.                 |                         |              | Ш               |          | $\perp$  |     |  | 120        |          |          | Ш         |          |          |          | $\Box$   | _                  |   |
|           | 21              |              | <u> </u>   |                 |                 |                 |  |            | _                  | _        |                    | 71       | Ш                   |                    |                         | _            | Щ               | _        |          |     |  | 121        |          |          | Ш         |          |          | Ш        |          |                    |   |
| <u> </u>  | 22              | √,           | <u> </u>   | _               | Щ               | _               |  |            |                    | _        |                    | 72       | -                   | _                  | ┸                       | $\perp$      | Щ               | _        | _        | 4 . | $\sqcup$   | 122        |          |          | Щ         |          |          | Щ        |          | _                  |   |
|           | 23              | √            |  |                 | L               | _               |  |            |                    | 4        | -                  | 73       | $\vdash$            | _                  |                         | _            |                 | 4        |          | 4   | $\sqcup$   | 123        | _        | _        | Ш         |          |          |          |          | _                  |   |
|           | , <b>X</b>      | ,            | <b> </b>   | H               | $\vdash$        | Н               | Ш  |            |                    | -        | -                  | 74       | $\vdash \vdash$     |                    | +                       | ـ            | $\vdash \vdash$ | 4        | +        |     | $\vdash \vdash$                                  | 124        |          |          | Щ         |          |          |          | $\dashv$ | _                  |   |
|           | 25<br><b>26</b> | <b>√</b>     | ⊢  |                 | Н               | $\vdash$        | H  | $\vdash$   | -                  | -        | -                  | 75       | 1                   | +                  | +-                      | +            | Н               |          | $\dashv$ | -   | <b>  </b>  | 125        |          |          |           |          |          |          |          |                    | _ |
|           | 27              | +            | -  | $\vdash$        | Н               | Н               | $\vdash$   |            |                    | -        | -                  | 76<br>77 | $\dashv$            | +                  | +                       | ┿            |                 | +        |          | -   | $\vdash$   | 126        |          |          | Ш         | _        |          | $\dashv$ | -        | $\dashv$           | _ |
|           | 28              | H            | ┝  | -               | $\vdash$        | Н               | Н  | $\vdash$   | -                  | -        | -                  | 78       | $\dashv$            | +                  |                         | +-           | $\vdash$        | +        | +        | -   |  | 127<br>128 |          | _        | Н         |          |          |          |          | $\dashv$           |   |
| -         | 29              | +            | ⊢  |                 |                 | H               | -  | $\vdash$   | -                  | $\dashv$ | $\vdash$           | 79       | +                   | -                  | +                       | ╁            | $\vdash$        | $\dashv$ |          | -   |  | 129        | Н        |          | Н         | _        |          | $\dashv$ | $\dashv$ | $\dashv$           |   |
|           | 30              | +            | ┢┈   | $\vdash$        |                 | Н               | Н  | $\dashv$   |                    | $\dashv$ | -                  | 80       | $\vdash$            | +                  | +                       | +            | $\dashv$        | $\dashv$ | +        | 1   | $\vdash$   | 130        | Н        |          | Н         | -        |          | $\dashv$ | $\dashv$ |                    |   |
|           | 31              | +            |  |                 | Н               | Н               | -  | $\dashv$   |                    | -        |                    | 81       | $\dashv$            | +                  | +                       | +            | $\dashv$        | $\dashv$ |          | 1   |  | 131        | Н        | -        | Н         | -        | _        | $\vdash$ | $\dashv$ | -                  |   |
|           | 32              | 1            | _  | H               |                 | Н               | Н  | $\dashv$   | +                  | -        | $\vdash$           | 82       | -                   | +                  |                         | +            | -               | $\dashv$ | +-       | 1   | <b></b>  | 132        | Н        | _        | Н         |          |          |          | -        |                    | _ |
|           | 33              | ¥            | $\vdash$   |                 |                 |                 | Н  | $\vdash$   | +                  | 1        |                    | 83       | $\vdash$            | +                  | +                       | +            | $\vdash$        | +        | +        | 1   | <del>                                     </del> | 133        | $\vdash$ | $\vdash$ | $\vdash$  | $\vdash$ |          | $\vdash$ | $\dashv$ | $\dashv$           | - |
|           | 34              |              | $\vdash$   | П               | Н               |                 | $\vdash$   | $\vdash$   | $^{+}$             | 7        |                    | 84       | $\vdash$            | $\top$             | +                       | +            | $\vdash$        | $\dashv$ | +        | 1   |  | 134        | H        | $\vdash$ | H         | $\vdash$ |          | $\vdash$ | $\vdash$ | $\dashv$           | - |
|           | 35              |              |  |                 |                 |                 | М  | H          | 十                  | 7        |                    | 85       | $\vdash$            | 1                  | $\top$                  |              |                 | $\top$   | $\dashv$ | 1   | $\vdash$   | 135        |          |          | Н         | =        | $\vdash$ |          | $\neg$   | $\dashv$           |   |
|           | 36              | √            |  |                 |                 |                 |  |            | 一                  |          |                    | 86       |                     | $\top$             | $\top$                  | 1            |                 | $\dashv$ | $\top$   | 1   |  | 136        | Н        |          | Н         |          | $\neg$   | $\vdash$ | $\neg$   | $\dashv$           |   |
|           | 37              | √            |  |                 |                 |                 |  |            |                    |          |                    | 87       |                     | $\top$             | T                       | 1            | Ħ               | $\top$   |          | 1   |  | 137        | П        | _        | Н         |          | =        |          | $\dashv$ | 寸                  |   |
|           | 38              |              |  |                 |                 |                 |  |            | $\Box$ T           |          |                    | 88       |                     |                    |                         |              |                 | T        | $\neg$   | 1   | $\Box$   | 138        | П        |          |           |          |          |          |          |                    |   |
|           | 39              | √            |  |                 |                 |                 |  |            |                    |          |                    | 89       |                     |                    | I                       |              |                 |          |          | ]   |  | 139        |          |          | П         |          |          |          | ┪        |                    |   |
|           | 40              | √            |  |                 |                 |                 |  |            |                    |          |                    | 90       |                     | floor              | 1                       |              |                 |          |          | ]   |  | 140        |          |          |           |          |          |          |          |                    |   |
|           | 41              |              | $\Box$   | $\Box$          |                 |                 |  |            | $oldsymbol{\perp}$ | _        |                    | 91       |                     |                    |                         |              |                 | $\Box$   | I        | ]   |  | 141        |          |          |           |          |          |          |          |                    |   |
|           | 42              |              |  | Щ               |                 |                 |  | $\Box$     | $\perp$            |          |                    | 92       | $\Box$              | $oldsymbol{\perp}$ |                         | L            | Ш               | $\Box$   |          | ]   |  | 142        |          |          |           |          |          |          |          |                    |   |
|           | 43              |              | _  | Щ               | Ш               |                 |  | Ш          |                    | _        |                    | 93       |                     | $\perp$            |                         |              | Ш               | $\perp$  |          | ]   |  | 143        |          |          |           |          |          |          | $\Box$   |                    |   |
|           | 44              |              |  | Щ               | Ш               | Ш               |  | Ш          |                    | _        | $\sqcup$           | 94       | $\sqcup$            | _                  | $\perp$                 | <u> </u>     | $\Box$          | $\perp$  |          | 1   | $oxed{oxed}$                                     | 144        |          |          |           |          |          |          |          | $\Box$             |   |
|           | 45              |              | <u> </u>   | Щ               | $\sqcup$        | Щ               | Щ  |            |                    | 4        | $\perp \perp \mid$ | 95       | Ц                   | _                  | 4.                      | <u> </u>     | $\Box$          |          | _        | 1   |  | 145        | Ш        |          | Ш         |          |          |          | $\perp$  | $oldsymbol{\perp}$ |   |
|           | 46              |              | <u> </u>   | Ш               | $\square$       | Щ               | Ш  | $\sqcup$   | _                  | 4        | $\perp \perp$      | 96       | $\vdash$            | _                  | 4                       |              | $\sqcup$        | _        |          | 1   | $\perp$  | 146        | Ш        | $\Box$   | Ш         |          | $\Box$   | $\Box$   | [        | _[                 | _ |
|           | 47              |              | $\vdash$   | $\vdash \vdash$ | _               | Ш               | Ш  | $\sqcup$   | -                  | 4        | $\vdash \vdash$    | 97       | $\vdash \downarrow$ | 4                  | 4                       | $\perp$      |                 | 4        | -        | ↓   | $\sqcup$   | 147        |          |          | Ш         |          |          |          | ļ        | ļ                  |   |
|           | 48              | _            | ├  | Н               | $\vdash \vdash$ | $\vdash \dashv$ | $\vdash\dashv$                                   | $\dashv$   | -+                 | 4        | $\vdash$           | 98       | $\dashv$            | 4                  | +                       | -            | $\vdash$        | -        | —        | 4 1 |  | 148        | Ш        | Щ        | $\square$ | _        | _        |          | _        | ļ                  |   |
|           | 49<br>50        | _            |  | $\vdash$        | $\vdash$        | Н               | $\vdash$   |            | +                  | 4        |                    | 99       | -                   | +                  | +                       | $\vdash$     |                 | _        | +        | 4   |  | 149        | Ш        | Щ        | $\square$ | _        | $\dashv$ | $\Box$   | _        | _                  | _ |
|           | 50              |              | <u> </u>   | Ш               |                 | Ш               | Ш  | Ш          | L_                 |          | $\Box$             | 100      |                     | L_                 |                         |              | Щ               |          | ш        | J   |  | 150        |          | L        |           |          |          |          |          |                    |   |